LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (Withdrawn): An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1-3, 6, 18, 21-23, 26, 29-31, 33, 36-37, 40, 43, 44-45, 47, 49-50, 52-54, or 56-58, or the mature protein coding portion thereof.

Claim 2 (Withdrawn): An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide hybridizes to the polynucleotide of claim 1 under stringent hybridization conditions (0.5 M $NaHPO_4$, 7% sodium dodecyl sulfate (SDS), 1 mM EDTA at 65°C).

Claim 3 (Withdrawn): The polynucleotide of claim 1 wherein said polynucleotide is DNA.

Claim 4 (Withdrawn): An isolated polynucleotide which comprises the complement of any one of the polynucleotides of claim 1.

Claim 5 (Withdrawn): A vector comprising the polynucleotide of claim 1.

Claim 6 (Withdrawn): An expression vector comprising the polynucleotide of claim 1.

Claim 7 (Withdrawn): A host cell genetically engineered to comprise the polynucleotide of claim 1.

Claim 8 (Withdrawn): A host cell genetically engineered to comprise the polynucleotide of claim 1 operatively associated with a regulatory sequence that modulates expression of the polynucleotide in the host cells.

Claim 9 (Currently amended): An isolated polypeptide, wherein the polypeptide is ~~selected from the group consisting of:~~

~~(a) a polypeptide~~ encoded by ~~any one of~~ the polynucleotides of ~~claim 1~~SEQ ID NO: 31~~; and~~

~~(b) a polypeptide encoded by a polynucleotide hybridizing under stringent conditions with any one of SEQ ID NO: 1-3, 6, 18, 21-23, 26, 29-31, 33, 36-37, 40, 43, 44-45, 47, 48-50, 52-54, or 56-58.~~

Claim 10: (Currently amended): An isolated polypeptide comprising an amino acid sequence ~~selected from the group consisting of any one of the polypeptides of~~ SEQ ID NO: ~~4-5, 7-8, 19-20, 24-25, 27-28,~~ 32, ~~34-35, 38-39, 41-42, 46, 48, 51, 55, 59-60, or 68-69~~.

Claim 11 (Original): A composition comprising the polypeptide of claim 9 or 10 and a carrier.

Claim 12 (Withdrawn): An antibody directed against the polypeptide of claim 9 or 10.

Claim 13 (Withdrawn): A method for detecting the polynucleotide of claim 1 in a sample, comprising the steps of:

(a) contacting the sample with polynucleotide probe that specifically hybridizes to the polynucleotide under conditions which permit formation of a probe/polynucleotide complex; and

(b) detecting the presence of a probe/polynucleotide complex, wherein the presence of the complex indicates the presence of a polynucleotide.

Claim 14 (Withdrawn): A method for detecting the polynucleotide of claim 1 in a sample, comprising the steps of:

(a) contacting the sample under stringent hybridization conditions with nucleic acid primers that anneal to the polynucleotide of claim 1 under such conditions; and

(b) amplifying the polynucleotide or fragment thereof, so that if the polynucleotide or fragment is amplified, the polynucleotide is detected.

Claim 15 (Withdrawn): The method of claim 14, wherein the polynucleotide is an RNA molecule that encodes the polypeptide of claim 9 or 10, and the method further comprises reverse transcribing an annealed RNA molecule into a cDNA polynucleotide.

Claim 16 (Withdrawn): A method of detecting the presence of the polypeptide of claim 9 or 10 having the amino acid sequence of any one of SEQ ID NO: 4-5, 7-8, 19-20, 24-25, 27-28, 32, 34-35, 38-39, 41-42, 46, 48, 51, 55, 59-60, or 68-69, or a fragment thereof in a cell, tissue or fluid sample comprising:

(a) contacting said cell, tissue or fluid sample with an antibody or fragment of claim 10 under conditions which permit the formation of an antibody/polypeptide complex; and

(b) detecting the presence of an antibody/polypeptide complex, wherein the presence of the antibody/polypeptide complex indicates the presence of any of the polypeptides of claim 10.

Claim 17 (Withdrawn): A method for identifying a compound that binds to a polypeptide of any one of SEQ ID NO: 2, ... comprising:

(a) contacting a compound with the polypeptide of any of SEQ ID NO: 4-5, 7-8, 19-20, 24-25, 27-28, 32, 34-35, 38-39, 41-42, 46, 48, 51, 55, 59-60, or 68-69 for a time sufficient to form a polynucleotide/compound complex; and

(b) detecting the complex, so that if a polypeptide/compound complex is detected, a compound that binds to any one of SEQ ID NO: 4-5, 7-8, 19-20, 24-25, 27-28, 32, 34-35, 38-39, 41-42, 46, 48, 51, 55, 59-60, or 68-69 is identified.

Claim 18 (Withdrawn): A method for identifying a compound that binds to any one of the polypeptides of SEQ ID NO: 4-5, 7-8, 19-20, 24-25, 27-28, 32, 34-35, 38-39, 41-42, 46, 48, 51, 55, 59-60, or 68-69, comprising:

(a) contacting a compound with the polypeptide of any one of SEQ ID NO: 4-5, 7-8, 19-20, 24-25, 27-28, 32, 34-35, 38-39, 41-42, 46, 48, 51, 55, 59-60, or 68-69, in a cell, for a time sufficient to form a polypeptide/compound complex, wherein the complex drives the expression of a reporter gene sequence in the cell; and

(b) detecting the complex by detecting reporter gene sequence expression, so that if a polypeptide/compound complex is detected, a compound that binds to any one of the polypeptides of SEQ ID NO: 4-5, 7-8, 19-20, 24-25, 27-28, 32, 34-35, 38-39, 41-42, 46, 48, 51, 55, 59-60, or 68-69 is identified.

Claim 19 (Withdrawn): A method of producing the polypeptides of claim 9 or 10, comprising:

(a) culturing the host cell of claim 7 or 8 for a period of time sufficient to express the polypeptide; and

(b) isolating the polypeptide from the cell or culture media in which the cell is grown.

Claim 20 (Original): A kit comprising any one of the polypeptides of claim 9 or 10.

Claim 21 (Withdrawn): A nucleic acid array comprising the polynucleotide of claim 1 attached to a surface.

Claim 22 (Original): The polypeptide of claim 9 or 10 wherein the polypeptide is provided on a polypeptide array.